



Field Data Collection



Field Data Collection

Why collect data in the field?

Advantages and disadvantages

Methods

Field collection tools

Why collect data in the field?

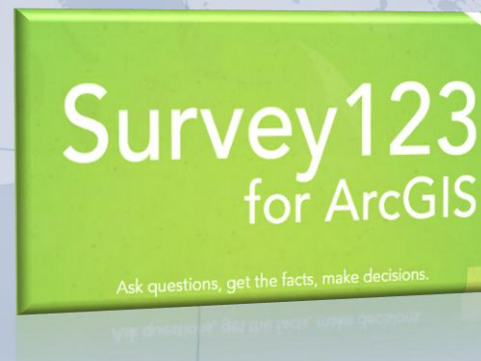
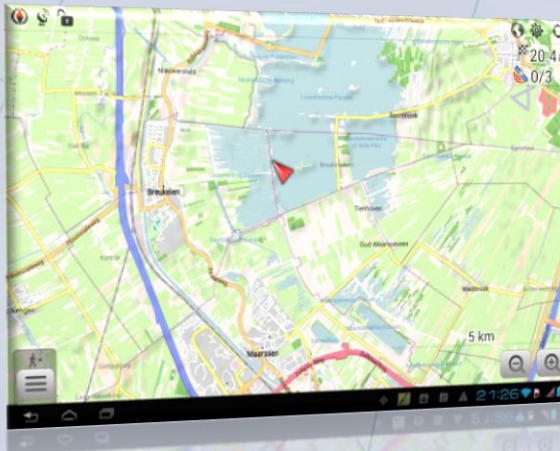
- Potential Advantages
 - ‘Ground truth:’ especially for attribute data
 - Timeliness: when imagery is not readily available
 - Fiscally sound: no expensive imagery required
 - Perspective: different than overhead
 - Coincidental collection: collect additional data enroute
- Potential Disadvantages
 - Accuracy: GPS and ground station availability
 - Time: traveling to locations
 - Resource intensive: manpower and time/money
 - Accessibility: conditions may not permit access

Sampling

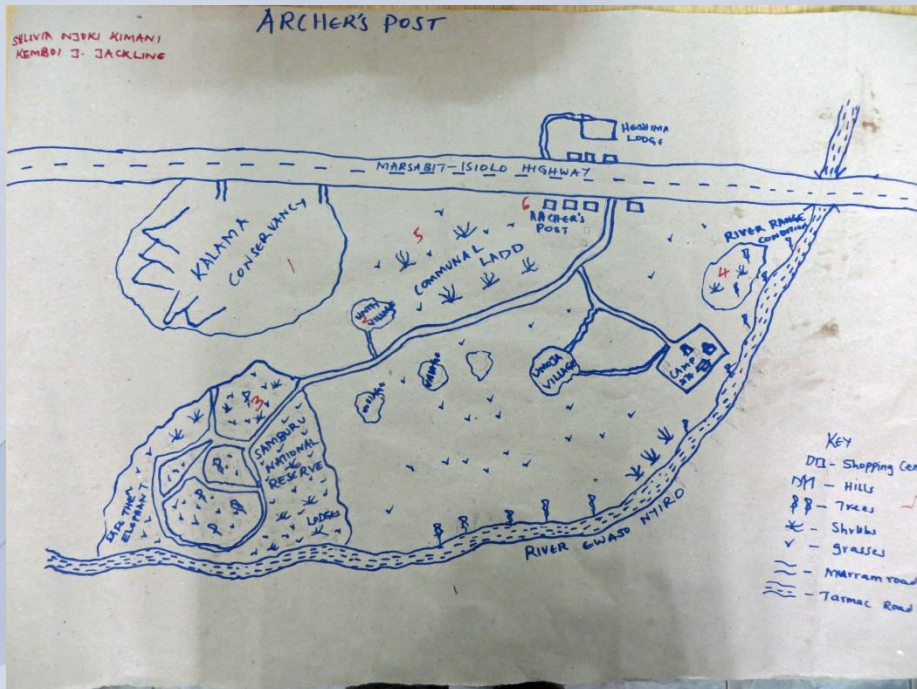
- Target data collection activity
- Human data: Surveys
- Validation and verification
- Combining imagery analysis and field data collection: complementary data collection
- Presence and absence

Tools

- No shortage of options
- Considerations
 - Online and offline use
 - Compatibility
 - Ease of use
 - Cost
 - Accuracy and scale required by each project



Exercise: Converting Field Data into Digital Data; Situating your points on a satellite image



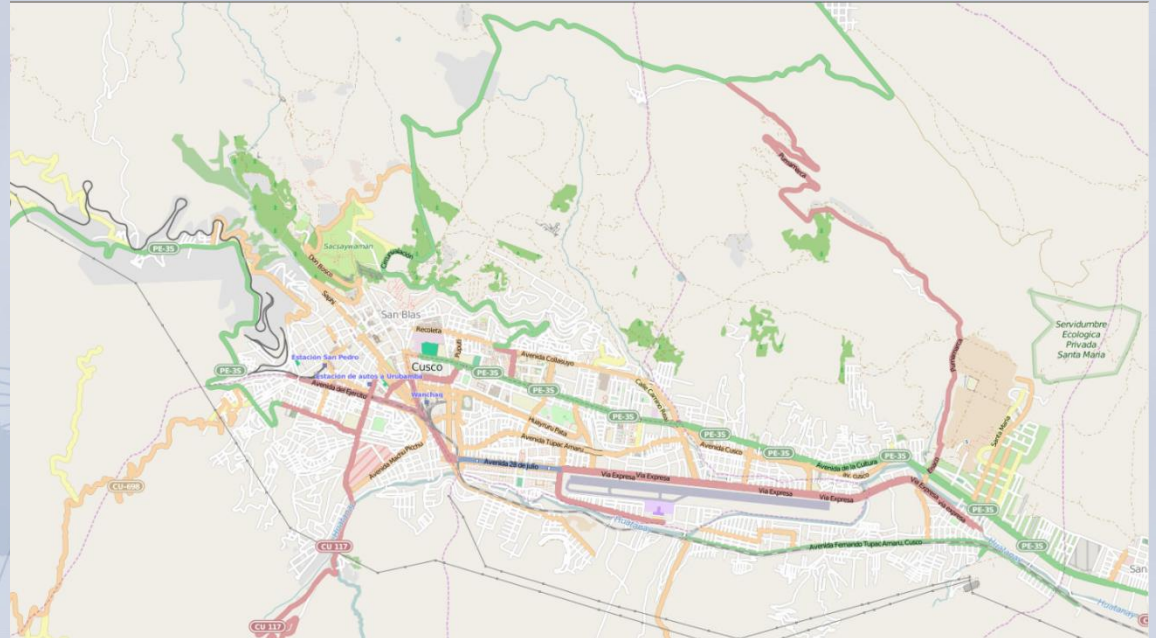
Creating attribute information

Table						
Favoristesites						
FID	Rec_No	Shape *	Name	X	Y	
0	0	Point		0	0	
1	0	Point		0	0	
2	0	Point		0	0	
3	0	Point		0	0	
4	0	Point		0	0	

0 (0 out of 5 Selected)

Favoristesites

OpenStreetMap:
Open data collected
by a community
of mappers



ESRI Imagery: May 2015



Make a Map

Favorite Places in Cusco

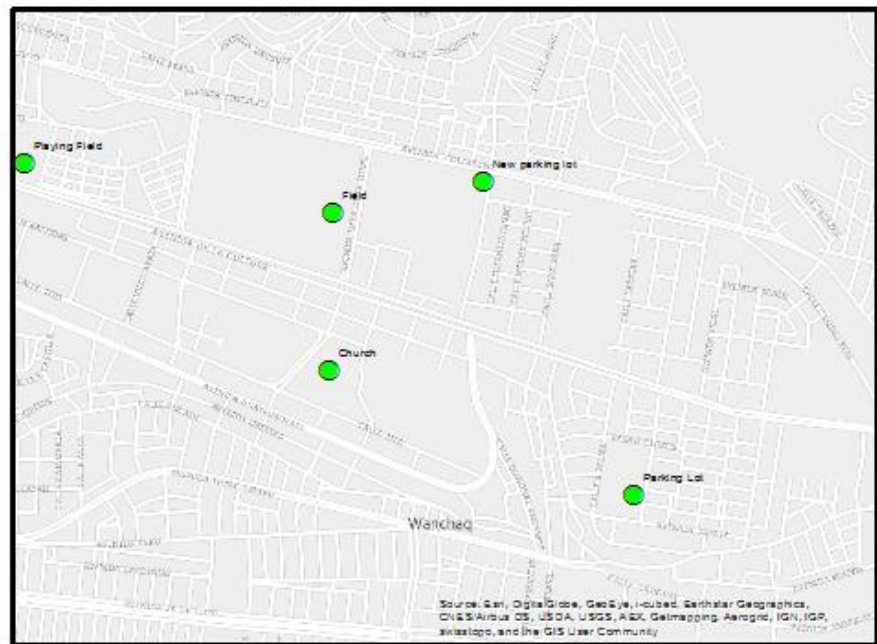
Favorite Places in Cusco, Peru



Legend

● CBSS Favorite Sites in Cusco

● CBSS



Source: San, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, IGP, Swisstopo, and the GIS User Community

0 0.125 0.25 0.5 Kilometers

Exercise 3: Collecting Field Data & Converting Field Data into Digital Data

Field Data collection

Survey123

ArcGIS OnLine

Collect data in field based upon a HG theme:

You will be given a point to navigate to...

Collect 2 more HG points

Return to computer lab

Data sharing

CuscoGeoNode